PROPOSED ADDITION TO THE "OFFICIAL LIST OF FAMILY-GROUP NAMES IN ZOOLOGY" OF CERTAIN FAMILY-GROUP NAMES FOR AMMONOIDEA, GENERALLY ACCEPTED IN CORRECTED FORM BUT ORIGINALLY MIS-SPELT OR INCORRECTLY FORMED

By **W. J. ARKELL,** M.A., D.Sc., F.R.S.

(*Cambridge University, Sedgwick Museum, Cambridge*)

(Commission Reference : Z.N.(S.) 954)

A. Hyatt, one of the first students of Ammonoidea to split up the old comprehensive genus *Ammonites*, founded a number of genera on which, at the same time or later, he erected families. He erected also some families erected on previously-named genera.

2. The following six family-group names introduced by Hyatt (A.) were not in the first instance correctly formed on the stem of the name of the type genus, but were published with one exception in a shortened form :—

(a) ARIETIDAE Hyatt, 1875, *Proc. Boston Soc. nat. Hist.* **17** : 225 (type genus *Arietites* Waagen, 1869) ;

(b) AMALTHEOIDAE Hyatt, 1867, *Bull. Mus. comp. Zool.* **1** (No. 5) : 89 (type genus : *Amaltheus* Montfort, 1808) ;

(c) DACTYLOIDAE Hyatt, 1867, *Bull. Mus. comp. Zool.* **1** (No. 5) : 87, 94 (type genus : *Dactylioceras* Hyatt, 1867) ;

(d) OXYNOTIDAE Hyatt, 1875, *Proc. Boston Soc. nat. Hist.* **17** : 230 (type genus : *Oxynoticeras* Hyatt, 1875) ;

(e) PHYMATOIDAE Hyatt, 1867, *Bull. Mus. comp. Zool.* **1** (No. 5) : 88 (type genus : *Phymatoceras* Hyatt, 1867) ;

(f) PLEURACANTHITIDAE Hyatt, 1900, *in* Zittel's *Textb. Palaeont.* (ed. C. R. Eastman) : 568 (type genus : *Pleuroacanthites* Canavari, 1883).

3. In the same category are the two following family-group names published by Haug (E.) either in a shortened or otherwise incorrect form :—

(a) POLYMORPHIDAE Haug (E.), 1887, *Neues Jahrb. Min.* 1887, **2** : 89 (type genus : *Polymorphites* Haug, 1887) ;

(b) HOLCOSTEPHANIDAE Haug, 1910, *Traité Géol.* 2 (Pt. 2) : 1167 (type genus : *Olcostephanus* Neumayr, 1875).

4. All these family names have been accepted by nearly all authors, with attribution to Hyatt or Haug respectively, and with priority from the date of their first introduction by Hyatt or Haug. Some authors when so using the family names have silently corrected them to conform to modern standards of nomenclatural precision, but usually have not altered the attribution or the date of introduction for purposes of priority.

5. The corrected name " ARIETITIDAE (correction of ARIETIDAE) Hyatt, 1875 " has already been placed on the *Official List* by *Direction* 14 of the International Commission (*Ops. Decls. int. Comm. zool. Nomencl.* **10** : 463–480).

6. In order to avoid the unnecessary disturbance to accepted nomenclature which would result from the loss of priority and change of authorship of these names if they came to be attributed in future to the various authors who first published the corrected forms, it is hereby proposed to add the following seven family-group names to the *Official List of Family-Group Names in Zoology* :—

(1) AMALTHEIDAE (correction of AMALTHEOIDAE) Hyatt, 1867 (type genus : *Amaltheus* Montfort, 1808) ;

(2) DACTYLIOCERATIDAE (correction of DACTYLOIDAE) Hyatt, 1867 (type genus : *Dactylioceras* Hyatt, 1867) ;

(3) OXYNOTICERATIDAE (correction of OXYNOTIDAE) Hyatt, 1875 (type genus : *Oxynoticeras* Hyatt, 1874) ;

(4) PHYMATOCERATINAE (correction of PHYMATOIDAE) Hyatt, 1900 (type genus : *Phymatoceras* Hyatt, 1867) ;

(5) PLEUROACANTHITIDAE (correction of PLEURACANTHITIDAE) Hyatt, 1900 (type genus : *Pleuroacanthites* Canavari 1883) ;

(6) POLYMORPHITIDAE (correction of POLYMORPHIDAE) Haug, 1887 (type genus : *Polymorphites* Haug, 1887) ;

(7) OLCOSTEPHANIDAE (correction of HOLCOSTEPHANIDAE) Haug, 1910 (type genus : *Olcostephanus* Neumayr, 1875).

7. At the same time it is proposed to place the names of the type genera of the foregoing family-group taxa on the *Official List of Generic Names in Zoology* and to place on the *Official List of Specific Names in Zoology* the specific names of the type species of the genera in question. The names concerned, with their original references, are as follows :—

(a) *Amaltheus* Montfort, 1808, *Conch. syst. Class. méth. Coquilles* **1** : 90 (gender : masculine) (type species, by original designation : *Amaltheus margaritatus* Montfort, 1808, *Conch. syst. Class. méth. Coquilles* **1** : 91) ;

(b) *Dactylioceras* Hyatt, 1867 : [The question of the type species for this genus forms the subject of a separate application which is being submitted to the International Commission by Mr. P. C. Sylvester-Bradley[1].] ;

(c) *Oxynoticeras* Hyatt (A.), 1875, *Proc. Boston Soc. nat. Hist.* **17** : 230 (gender : neuter) (type species, by selection by Buckman (S.S.) (1909, *Yorkshire Type Ammonites* **1** : *ii*) : *Ammonites oxynotus* Quenstedt (F.A.), 1843, *Floezgeb. Wurtemb.* : 161) ;

(d) *Phymatoceras* Hyatt (A.), 1867, *Bull. Mus. comp. Zool.* **1** (No. 5) : 88 (gender : neuter) (type species, by monotypy : *Phymatoceras robustum* Hyatt (A.), 1867, *Bull. Mus. comp. Zool.* **1** (No. 5) : 88) [Note for inclusion in the *Official List* : The nominal species which is the type species of this genus is interpreted by some authors as being the young of *Ammonites tirolensis* von Hauer, 1856 (*Denkschr. k. Akad. Wiss.*, Math.-Nat. Kl. **11** : 41, pl. vii, figs. 1–3) as interpreted by the description and figure given by Dumortier (E.), 1874, *Et. paléont. Dépots Jurass. Bassin Rhône* **4** : 86, pl. xxiv, figs. 1, 2) ;

(e) *Pleuroacanthites* Canavari, 1883, *Atti. Soc. toscana.* Proc. verb. **3** : 279 (gender : masculine) (type species, by selection by Haug (E.) (1889, *Annu. géol. univ.* **5** (for 1888) : 1057) : *Ammonites biformis* Sowerby (J. de C.), 1831, *in* de la Beche, *Geol. Man.* : 319) ;

(f) *Polymorphites* Haug (E.), 1887, *Neues Jahrb. Min.* Beil.-Band. **2** : 107, 120 (gender : masculine) (type species, by selection by Buckman (S.S.) (1892, *Mon. Inf. Ool. Amm. Brit. Isls*, Palaeont. Soc., Part **6** : 267) : *Ammonites polymorphus* Quenstedt (F.A.), 1845, *Petref. Deutschl.* : 86 [as nom. nud. on p. 75]) ;

(g) *Olcostephanus* Neumayr (M.), 1875, *Z. dtsch. geol. Ges.* **27** : 922 (gender : masculine) type species, by original designation : *Ammonites astierianus* d'Orbigny, 1840, *Pal. franc.*, Terr. crét. **1** : 115).

8. As a corollary, the following family-group names, each of which is an Invalid Original Spelling for one or other of the names specified in paragraph 6 above, should be placed on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* :—

---

[1] See Postscript by myself annexed at the end of the present paper. F.H. 28th Jan. 1958.

(1) AMALTHEOIDAE Hyatt, 1867

(2) DACTYLOIDAE Hyatt, 1867

(3) OXYNOTIDAE Hyatt, 1875

(4) PHYMATOIDAE Hyatt, 1900

(5) PLEUROACANTHITIDAE Hyatt, 1900

(6) POLYMORPHIDAE Haug, 1887

(7) HOLCOSTEPHANIDAE Haug, 1910

9. The action which the International Commission is now asked to take is namely :—

(1) to place the seven family-group names specified in paragraph 6 of the present application on the *Official List of Family-Group Names in Zoology* ;

(2) to place on the *Official List of Generic Names in Zoology* the names of the seven genera specified in paragraph 7 of the present application, each of which, as shown in paragraph 6, is the type genus of a family-group taxon, the name of which it is proposed in (1) above to place on the *Official List* of names for taxa of the family-group category ;

(3) to place on the *Official List of Specific Names in Zoology* the specific names of the nominal species specified in paragraph 7 above, each of which is type species of a nominal genus specified in that paragraph, the entries so to be made on the above *Official List* to be endorsed in each case to show that the nominal species bearing the specific name concerned is the type species of the nominal genus in connection with which it is cited in the said paragraph ;

(4) to place on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* the seven family-group names specified in paragraph 8 of the present application, each of which is an Invalid Original Spelling for one or other of the family-group names referred to in (1) above.

Postscript by the Secretary : One of the family-group names included by Dr. Arkell in this application, DACTYLIOCERATIDAE (correction of DACTYLOIDAE) Hyatt (A.), 1867, was the subject of identical recommendations submitted almost simultaneously by Mr. P. C. Sylvester-Bradley (File Z.N.(S.) 956). The two authors have asked that these applications should be co-ordinated by the

Office of the Commission prior to being published. Of the proposals concerned that by Mr. Sylvester-Bradley was the more detailed and it has accordingly been decided to treat his application in regard to the above name and the names associated with it as the substantive application on which in due course the Commission will be asked to vote. Under this arrangement the proposals in Dr. Arkell's paper regarding (a) the family-group name DACTYLIOCERATIDAE and its Invalid Original Spelling DACTYLOIDAE, (b) the generic name *Dactylioceras* Hyatt, and (c) the specific name *communis* Sowerby (J.), 1815, as published in the combination *Ammonites communis*, will be excluded from consideration when his paper is submitted to the Commission for vote, all those proposals having (as explained above) been included in the application by Mr. Sylvester-Bradley which will be submitted for vote at the same time as the more extensive proposals set out in Dr. Arkell's application. (signed) Francis Hemming, *Secretary to the International Commission on Zoological Nomenclature*, 28th January 1958.

SUPPORT FOR THE APPLICATION REGARDING THE NAME "PALAEMON ADSPERSUS" RATHKE, 1837 (CLASS CRUSTACEA, ORDER DECAPODA)

By **J. C. YALDWYN**

(*Victoria University of Wellington, Wellington, New Zealand*)

(Commission Reference : Z.N.(S.) 446)

(For the applications submitted see *Bull. zool. Nomencl.* **13** : 142–153 ; *ibid.* **13** : 294–296)

(Letter dated 5th February 1958)

I have recently received a copy of Dr. L. B. Holthuis' application to the International Commission on Zoological Nomenclature, reference Z.N.(S.) 446. I would very much like the opportunity of commenting on this proposal.

I fully agree with Dr. Holthuis' proposals on the *Leander/Palaemon* and *squilla/adspersus* problems, and also his later proposal (*Bull. zool. Nomencl.* **13** : 294–296) on the suppression of the totally overlooked *Palaemon communis*. I have no other comment to add except to say that I think his ideas are the only ones we can possibly accept now, and in fact I think until we do accept them there will be no stability at all in this common genus.